8. **(reiterated)** A host cell comprising the polynucleotide of claim 1, or progeny of the cell.

C7 9. **(amended)** A host cell comprising the polynucleotide of claim 1, wherein the nucleotide sequence of the polynucleotide is operably linked with a regulatory sequence that controls expression of the polynucleotide in a host cell, or progeny of the cell.

10. **(reiterated)** The host cell of claim 8 which is a eukaryote.

11. **(reiterated)** The polynucleotide of claim 1 that is an antisense polynucleotide less than about 100 bases in length.

12. **(reiterated)** An antisense oligonucleotide complementary to a messenger RNA comprising SEQ ID NO:1 and encoding CLASP-3, wherein the oligonucleotide inhibits the expression of CLASP-3.

C8 13. **(amended)** An isolated CLASP-3 polynucleotide comprising at least 600 contiguous nucleotides of SEQ ID NO:1 or allelic variant thereof.

14. **(reiterated)** The polynucleotide of claim 1 that is RNA.

15. **(reiterated)** A method for producing a polypeptide comprising:

(a) culturing the host cell of claim 8 under conditions such that the polypeptide is expressed; and

(b) recovering the polypeptide from the cultured host cell or its cultured medium.

C9 30. **(amended)** A composition comprising a polynucleotide of claim 1 and a carrier.

C10 38. **(new)** The polynucleotide of claim 1, wherein said polynucleotide encodes a polypeptide having at least 200 contiguous amino acids of SEQ ID NO:2.

39. **(new)** An isolated CLASP-3 polynucleotide, wherein said polynucleotide comprises at least 600 contiguous nucleotides of SEQ ID NO:1 and hybridizes to SEQ ID NO:1 under conditions of high stringency.

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40. **(new)** An isolated CLASP-3 polynucleotide, wherein said polynucleotide encodes a polypeptide having 95% or more sequence identity with at least 200 contiguous amino acids of SEQ ID NO:2.